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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,789	06/24/2003	Norio Kimura	2003-0865	9516
513	7590 05/13/2005		EXAM	INER
WENDERO 2033 K STR	OTH, LIND & PONA	SHAKER	II, HADI	
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGT	TON, DC 20006-1021		3723	
			DATE MAIL ED: 05/13/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Symptoms	10/601,789	KIMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hadi Shakeri	3723				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by status - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) and will apply and will expire SIX (6) MONTHS at the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	•					
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4)⊠ Claim(s) <u>36-43</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·					
6)⊠ Claim(s) <u>36-43</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
0)⊠ The drawing(s) filed on <u>30 July 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	,	•				
11) The oath or declaration is objected to by the E	Examiner. Note the attached Off	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 09/897,918.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a lis	st of the certified copies not rece	eived.				
Attachment(s)	·	(DTO 440)				
I) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Mai					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		al Patent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/18/05 has been entered.

Drawings

2. The drawings are objected to because in Fig. 4, electromagnetic coils 61a-64d, should be changed to 64a-64d. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

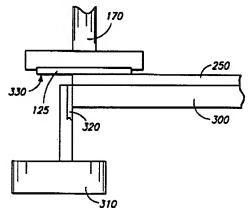
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Claim Rejections - 35 USC § 103

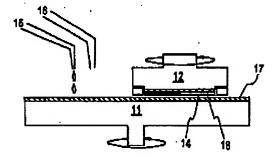
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 36-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Lenkersdorfer (6,213,844) in view of Watanabe et al. (5,951,368) and Osterheld (6,616,513).

Lenkersdorfer discloses all of the limitations of claims 36, 37, 40 and 43, i.e., a polishing table (300) having a polishing surface (250), a substrate carrier (170) having a lower surface for holding a substrate (125) and bringing the substrate into contact with said polishing surface, a liquid supply nozzle (not shown), and a film thickness



measurement device (310) for determining an end point of the polishing and being positioned at an outer peripheral portion of the table, except for disclosing an attitude control mechanism for keeping the lower surface of the substrate carrier parallel with the polishing surface and a nozzle providing water to the pad.

Regarding water nozzle, Osterheld discloses that a typical polishing apparatus includes a water nozzle for rinsing the pad. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the invention of



Lenkersdorfer with the water nozzle as taught by Osterheld to rinse the pad.

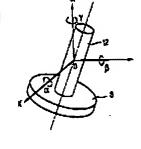
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Watanabe et al. teaches polishing apparatus, which can control the attitude of the top ring with respect to a surface of a turntable of a polishing apparatus.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the invention of either Lenkersdorfer or Sandhu et al. with the attitude control mechanism as taught by Watanabe et al. to provide a uniform polishing surface pressure across the entire polish surface.

Regarding claims 36-39 and 41 and 42, Lenkersdorfer as modified by Watanabe et al. meets all of the limitations, e.g., pivotal shaft rotatably supporting the carrier and a second nozzle (320) for supplying water to the wafer.



Response to Arguments

5. Applicant's arguments with respect to claims 36-43 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Prior art made of record and not relied upon are considered pertinent to applicant's disclosure. Hempel, Jr. is cited to show related invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hadi Shakeri whose telephone number is (571) 272-4495. The examiner can normally be reached on Monday-Thursday.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hadi Shakeri

Primary Examiner

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